

In the Claims

The following amendments are made with respect to the claims in the International application PCT/GB2004/004996.

This listing of claims will replace all prior versions and listings of claims in this application.

1 (original). A method for producing a micro-particle dry powder comprising a viral particle, comprising the steps of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C.

2 (original). The method according to claim 1, wherein the stabilizing carbohydrate is trehalose.

3 (currently amended). The method according to claim 1 or claim 2, wherein the concentration of the carbohydrate is from 2% w/v to 70% w/v.

4 (currently amended). The method according to any preceding claim 1, wherein the concentration of the carbohydrate is from 30% w/v to 60% w/v.

5 (currently amended). The method according to any preceding claim 1, wherein the concentration of the carbohydrate is from 40% w/v to 55% w/v.

6 (currently amended). The method according to any of claims 1-3 claim 1, wherein the concentration of the carbohydrate is from 6% w/v to 12% w/v.

7 (currently amended). The method according to any preceding claim 1, wherein the spray dryer has an outlet temperature from 20 to 40°C.

8 (currently amended). The method according to any preceding claim 1, wherein the feed rate of the spray dryer is from 0.05 to 2 g/min.

9 (currently amended). The method according to any preceding claim 1, wherein the spray dryer nozzle-tip configuration is 1 bar 10L/sec to 3 bar 30L/sec.

10 (currently amended). The method according to any preceding claim 1, wherein the spray dryer nozzle-tip configuration is 1.5 bar 14L/sec.

11 (currently amended). The method according to any of claims 1 to 9 claim 1, wherein the spray dryer nozzle-tip configuration is 3 bar 22L/sec.

12 (currently amended). The method according to any preceding claim 1, wherein the drying air pressure is from 1.5 bar to 3 bar.

13 (currently amended). The method according to any preceding claim 1, wherein the drying air flow rate is from 4.8L/sec to 8L/sec.

14 (currently amended). The method according to any preceding claim 1, wherein the atomization air flow rate is from 0.10 to 0.6L/sec.

15 (currently amended). The method according to any preceding claim 1, wherein the virus is an envelope virus.

16 (currently amended). The method according to any preceding claim 1, wherein the virus is measles.

17 (currently amended). A virus-containing micro-particle dry powder obtainable by the method of any of claims 1 to 16 a method comprising the steps of:

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C.

18 (currently amended). [[A]] The virus-containing micro-particle dry powder according to claim 17, wherein each micro-particle is suitable for deep lung deposition.

19 (currently amended). [[A]] The virus-containing micro-particle dry powder according to claim 17, wherein each micro-particle is suitable for bronchiolar and upper pulmonary tract deposition.

20 (currently amended). [[A]] The virus-containing micro-particle dry powder according to claim 17, wherein the powder is suspended in a non-aqueous medium.

21 (currently amended). [[A]] The virus-containing micro-particle dry powder according to claim 20, wherein the non-aqueous medium is a perfluorocarbon.

22 (currently amended). [[A]] The virus-containing micro-particle dry powder according to claim 20, wherein the non-aqueous medium is an oil, selected from the group consisting of:

sesame oil, arachis oil, soya oil, mineral oil and ethyloate.

23 (currently amended). [[A]] The virus-containing micro-particle dry powder according to claim 20, wherein the non-aqueous medium is selected from the group consisting of:

glycerol, ethylene glycol, propylene glycol, propylene oxide and polypropylene glycol.

24 (currently amended). A vaccine comprising a virus-containing micro-particle dry powder ~~according to claim 17, wherein said powder is obtainable by a method comprising the steps of:~~

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C for use in a method of therapy.

25 (currently amended). ~~The use of a virus-containing micro-particle dry powder according to claim 17, in the manufacture of a vaccine A method for the treatment or prevention of a viral infection, wherein said method comprises administering, to a patient in need of such treatment, a virus-containing micro-particle dry powder obtainable by a method comprising the steps of:~~

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C

26 (currently amended). The [[use]] method according to claim 25, wherein the infection is measles.

27 (currently amended). The [[use]] method according to claim 26, wherein the powder is processed in the form of a tablet or capsule.

28 (currently amended). A sachet comprising a ~~micro-particle dry powder according to claim 17 a virus-containing micro-particle dry powder obtainable by a method comprising a viral particle, comprising the steps of:~~

spray-drying a mixture of the viral particle and a stabilizing carbohydrate using an outlet temperature of no more than 60°C.